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(FILE 'HOME' ENTERED AT 16:24:19 ON 06 OCT 2004)

L1 FILE 'HCAPLUS' ENTERED AT 16:24:25 ON 06 OCT 2004
1 US20030040030/PN

FILE 'REGISTRY' ENTERED AT 16:25:05 ON 06 OCT 2004

L2 FILE 'HCAPLUS' ENTERED AT 16:25:15 ON 06 OCT 2004
TRA L1 1- RN : 19 TERMS

L3 FILE 'REGISTRY' ENTERED AT 16:25:15 ON 06 OCT 2004
19 SEA L2

L4 FILE 'WPIX' ENTERED AT 16:25:19 ON 06 OCT 2004
1 US20030040030/PN

=> b hcap

FILE 'HCAPLUS' ENTERED AT 16:25:49 ON 06 OCT 2004
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FILE COVERS 1907 - 6 Oct 2004 VOL 141 ISS 15
FILE LAST UPDATED: 5 Oct 2004 (20041005/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L1 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:763310 HCAPLUS
DN 135:300667
ED Entered STN: 19 Oct 2001
TI Homocysteine assay in a body fluid sample
IN Connolly, Caroline; Brady, Jeff
PA Axis-Shield ASA, UK
SO PCT Int. Appl., 38 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM G01N033-48
CC 9-2 (Biochemical Methods)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001077670	A2	20011018	WO 2001-GB1615	20010410
WO 2001077670	A3	20020516		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP 1272661	A2	20030108	EP 2001-919648	20010410
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP 2003530574	T2	20031014	JP 2001-574876	20010410

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US 2003040030 A1 20030227 US 2002-857433 20020305 <--
 PRAI GB 2000-8784 A 20000410
 WO 2001-GB1615 W 20010410

CLASS

PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

WO 2001077670 ICM G01N033-48

AB The present invention provides an improved method of assessing/quantifying the amount of homocysteine in a body fluid sample via an enzymic assay which comprises reducing background signal by treatment with one of the following: a reducing agent, a pyruvate deactivating agent, heat treatment, or by lyophilizing or immobilizing the homocysteine converting enzyme.

ST homocysteine assay body fluid

IT Reaction

(Cycling; homocysteine assay in a body fluid sample)

IT Filters

(Exclusion; homocysteine assay in a body fluid sample)

IT Enzymes, uses

RL: ARG (Analytical reagent use); PEP (Physical, engineering or chemical process); ANST (Analytical study); PROC (Process); USES (Uses)

(Homocysteine converting; homocysteine assay in a body fluid sample)

IT Thiols (organic), biological studies

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(dithiols, binding agent; homocysteine assay in a body fluid sample)

IT Immobilization, biochemical

(enzyme; homocysteine assay in a body fluid sample)

IT Blood

Body fluid

Centrifugation

Concentration (condition)

Cryoprotectants

Erythrocyte

Filters

Filtration

Freeze drying

Heat treatment

Heating

Liquids

Molecular sieves

Neutralization

Oxidation

Reducing agents

Stabilizing agents

Standard substances, analytical

Sulfhydryl group

Test kits

(homocysteine assay in a body fluid sample)

IT Enzymes, uses

Reagents

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)

(homocysteine assay in a body fluid sample)

IT Proteins, general, analysis

RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified);

ANST (Analytical study); USES (Uses)

(homocysteine assay in a body fluid sample)

IT Thiols (organic), biological studies

RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent)

(homocysteine assay in a body fluid sample)

IT Enzymes, uses

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)

(immobilized; homocysteine assay in a body fluid sample)

IT Disulfides

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)

(organic; homocysteine assay in a body fluid sample)

IT 6027-13-0, Homocysteine

RL: ANT (Analyte); ANST (Analytical study)

(homocysteine assay in a body fluid sample)

IT 53-84-9, NAD 58-68-4, NADH 74-88-4, Methyl iodide, uses 302-01-2,

Hydrazine, uses 541-59-3, Maleimide 3483-12-3, Dithiothreitol

5961-85-3, Triscarboxyethylphosphine 6892-68-8, Dithioerythritol

9001-05-2, Catalase 9001-60-9, Lactate dehydrogenase 9001-96-1,

Pyruvate oxidase. 9014-19-1, Pyruvate carboxylase. 9014-20-4, Pyruvate

dehydrogenase 9024-41-3, Homocysteine desulfurase 9025-03-0,

Acetoacetate decarboxylase

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(homocysteine assay in a body fluid sample)
IT 7722-84-1, Hydrogen peroxide, reactions
RL: ARG (Analytical reagent use); RCT (Reactant); ANST (Analytical study);
RACT (Reactant or reagent); USES (Uses)
(homocysteine assay in a body fluid sample)
IT 462-10-2, Homocystine
RL: ARU (Analytical role, unclassified); ANST (Analytical study)
(homocysteine assay in a body fluid sample)
IT 127-17-3, Pyruvic acid, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(homocysteine assay in a body fluid sample)

=> b reg
FILE 'REGISTRY' ENTERED AT 16:25:58 ON 06 OCT 2004
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Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES: 5 OCT 2004 HIGHEST RN 757166-57-7
DICTIONARY FILE UPDATES: 5 OCT 2004 HIGHEST RN 757166-57-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

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L3 ANSWER 1 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN
RN 9025-03-0 REGISTRY
CN Decarboxylase, acetoacetate (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Acetoacetate decarboxylase
CN Acetoacetic acid decarboxylase
CN E.C. 4.1.1.4
MF Unspecified
CI MAN
LC STN Files: AGRICOLA, BIOBUSINESS, BIOSIS, CA, CAPLUS, CSCHEM, TOXCENTER,
USPATFULL
DT.CA Caplus document type: Conference; Dissertation; Journal; Patent
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
PROC (Process); PRP (Properties); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC
(Process); PRP (Properties); USES (Uses); NORL (No role in record)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
95 REFERENCES IN FILE CA (1907 TO DATE)
95 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 2 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN
RN 9024-41-3 REGISTRY
CN Desulphydrase, homocysteine (9CI) (CA INDEX NAME)
OTHER NAMES:
CN E.C. 4.4.1.2
CN Homocysteinase
CN Homocysteine .alpha.,.gamma.-lyase
CN Homocysteine desulphydrase
CN Homocysteine desulfurase
MF Unspecified
CI MAN
LC STN Files: BIOSIS, CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL
DT.CA Caplus document type: Journal; Patent
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);

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OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties);
USES (Uses)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
study); BIOL (Biological study); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP
(Properties); USES (Uses); NORL (No role in record)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

31 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
31 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 3 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN

RN 9014-20-4 REGISTRY

CN Dehydrogenase, pyruvate (9CI) (CA INDEX NAME)

OTHER NAMES:

CN E.C. 1.2.4.1

CN Pyruvate decarboxylase (EC 1.2.4.1)

CN Pyruvate dehydrogenase

CN Pyruvate dehydrogenase complex

CN Pyruvic acid dehydrogenase

CN Pyruvic dehydrogenase

MF Unspecified

CI MAN

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,
CA, CABA, CAPLUS, CEN, CHEMCATS, CIN, EMBASE, PROMT, TOXCENTER, USPAT2,
USPATFULL

DT.CA Caplus document type: Conference; Dissertation; Journal; Patent; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC
(Process); PRP (Properties); USES (Uses)RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP
(Properties); USES (Uses)RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
(Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
(Reactant or reagent); USES (Uses); NORL (No role in record)RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU
(Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); USES
(Uses)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

3840 REFERENCES IN FILE CA (1907 TO DATE)
41 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3843 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 4 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN

RN 9014-19-1 REGISTRY

CN Carboxylase, pyruvate (9CI) (CA INDEX NAME)

OTHER NAMES:

CN E.C. 6.4.1.1

CN Non-acetylating pyruvate carboxylase

CN Pyruvate carboxylase

CN Pyruvic carboxylase

MF Unspecified

CI MAN

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,
CA, CABA, CAPLUS, CHEMCATS, CIN, EMBASE, NIOSHTIC, PROMT, TOXCENTER,
USPAT2, USPATFULL

DT.CA Caplus document type: Conference; Dissertation; Journal; Patent; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties);
RACT (Reactant or reagent); USES (Uses)RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
(Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
(Reactant or reagent); USES (Uses); NORL (No role in record)RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU
(Occurrence); PROC (Process)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1652 REFERENCES IN FILE CA (1907 TO DATE)

6 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1652 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 5 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN
RN 9001-96-1 REGISTRY
CN Oxidase, pyruvate (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 2-Oxopropanoic acid oxidase
CN E.C. 1.2.3.3
CN Pyruvate oxidase
CN Pyruvic acid oxidase
CN Pyruvic oxidase
MF Unspecified
CI MAN
LC STN Files: AGRICOLA, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS,
CHEMCATS, CHEMLIST, CIN, CSCHEM, EMBASE, MEDLINE, PROMT, TOXCENTER,
USPAT2, USPATFULL
Other Sources: EINECS**
(*Enter CHEMLIST File for up-to-date regulatory information)
DT.CA Caplus document type: Conference; Dissertation; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties);
RACT (Reactant or reagent); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
study); BIOL (Biological study); PROC (Process); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
(Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
(Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
study); PROC (Process); USES (Uses)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

805 REFERENCES IN FILE CA (1907 TO DATE)
13 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
806 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 6 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN
RN 9001-60-9 REGISTRY
CN Dehydrogenase, lactate (9CI) (CA INDEX NAME)
OTHER NAMES:
CN (S)-Lactate dehydrogenase
CN E.C. 1.1.1.27
CN L-Lactate dehydrogenase
CN L-Lactic acid dehydrogenase
CN L-Lactic dehydrogenase
CN Lactate dehydrogenase
CN Lactate dehydrogenase NAD-dependent
CN Lactic acid dehydrogenase
CN Lactic dehydrogenase
CN NAD-lactate dehydrogenase
CN NADH-dependent lactate dehydrogenase
CN Proteins, anoxic stress response, p34
DR 9013-91-6
MF Unspecified
CI MAN
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,
CA, CABA, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN,
CSCHEM, CSNB, DDFU, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE,
MRCK*, MSDS-OHS, NIOSHTIC, PROMT, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, TSCA**
(*Enter CHEMLIST File for up-to-date regulatory information)
DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent;
Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
CMBI (Combinatorial study); FORM (Formation, nonpreparative); OCCU
(Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
(Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP
(Properties); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
(Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
(Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

28313 REFERENCES IN FILE CA (1907 TO DATE)
204 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
28342 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 7 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN

RN 9001-05-2 REGISTRY

CN Catalase (9CI) (CA INDEX NAME)

OTHER NAMES:

CN ASC Super
CN ASC Super 25
CN Caperase
CN Catazyme 50L
CN E.C. 1.11.1.6
CN Equilase
CN Fermcolase
CN Fermcolase 1000
CN HR 200S
CN Microcatalase
CN Optidase
CN Reyonet F 35
CN T 100
CN T 100 (enzyme)
CN Terminox 50L
CN Terminox Ultra
CN Terminox Ultra 10L
MF Unspecified
CI COM, MAN

LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PHAR, PIRA, PROMT, RTECS*, TOXCENTER, ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)

Other Sources: EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent; Preprint; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

27315 REFERENCES IN FILE CA (1907 TO DATE)
325 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
27368 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 8 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN

RN 7722-84-1 REGISTRY

CN Hydrogen peroxide (H2O2) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Hydrogen peroxide (8CI)

OTHER NAMES:

CN Adeka Super EL
CN Albone
CN Albone 35
CN Albone DS
CN Anti-Keim 50
CN Asepticper

CN Baquashock
CN CIX
CN Crestal Whitestrips
CN Crystacide
CN Dentasept
CN Hioxyl
CN Hipox
CN Hybrite
CN Hydrogen dioxide
CN Inhibine
CN Lensan A
CN Metrokur
CN Mirasept
CN NSC 19892
CN Odosat D
CN Oxigenal
CN Oxydol
CN Oxyfull
CN Oxysept
CN Oxysept I
CN Pegasyl
CN Perhydrol
CN Perone
CN Peroxaan
CN Peroxclean
CN Select Bleach
CN Superoxol
CN T-Stuff
CN Xtra White
FS 3D CONCORD
DR 8007-30-5, 66554-50-5, 37355-84-3, 218625-72-0
MF H2 O2
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU,
DETERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2,
ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA,
MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, PS, RTECS*,
TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent;
Preprint; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC
(Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);
PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role
in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation);
PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES
(Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); CMBI (Combinatorial study); FORM (Formation, nonpreparative);
MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC
(Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses);
NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC
(Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);
PRP (Properties); RACT (Reactant or reagent); USES (Uses)

HO-OH

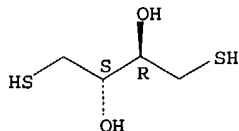
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

83125 REFERENCES IN FILE CA (1907 TO DATE)
655 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
83277 REFERENCES IN FILE CAPLUS (1907 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

Searched by Noble Jarrell

L3 ANSWER 9 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 6892-68-8 REGISTRY
 CN 2,3-Butanediol, 1,4-dimercapto-, (2R,3S)-rel- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 2,3-Butanediol, 1,4-dimercapto-, (R*,S*)-
 CN Erythritol, 1,4-dithio- (8CI)
 OTHER NAMES:
 CN 1,4-Dithioerythritol
 CN Dithioerythritol
 CN DTE
 CN erythro-1,4,-Dimercapto-2,3-butanediol
 FS STEREOSEARCH
 MF C4 H10 O2 S2
 CI COM
 LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHM, DDFU, DRUGU, EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, NIOSHTIC, PROMT, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)
 DT.CA Caplus document type: Conference; Dissertation; Journal; Patent; Report
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
 RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
 RLD.NP Roles for non-specific derivatives from non-patents: PREP (Preparation); PROC (Process); PRP (Properties); USES (Uses)

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

616 REFERENCES IN FILE CA (1907 TO DATE)
 17 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 616 REFERENCES IN FILE CAPLUS (1907 TO DATE)

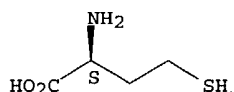
L3 ANSWER 10 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 6027-13-0 REGISTRY
 CN L-Homocysteine (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Butyric acid, 2-amino-4-mercapto-, L- (8CI)
 OTHER NAMES:
 CN (S)-2-Amino-4-mercaptobutanoic acid
 CN (S)-Homocysteine
 CN 2-Amino-4-mercapto-L-butyric acid
 CN 2-Amino-4-mercaptobutyric acid
 CN Butanoic acid, 2-amino-4-mercapto-, (S)-
 CN Homocysteine
 CN NSC 43117
 FS STEREOSEARCH
 DR 454-28-4, 1867-00-1
 MF C4 H9 N O2 S
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHM, DDFU, DIOGENES, DRUGU, EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, PIRA, PROMT, RTECS*, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**

Searched by Noble Jarrell

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent; Report
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
 RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
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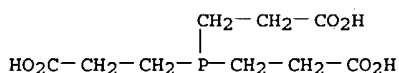
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5016 REFERENCES IN FILE CA (1907 TO DATE)
 83 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 5036 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 11 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 5961-85-3 REGISTRY
 CN Propanoic acid, 3,3',3''-phosphinidynetris- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Propionic acid, 3,3',3''-phosphinidynetri- (7CI, 8CI)
 OTHER NAMES:
 CN 3,3',3''-Phosphinidynetripropionic acid
 CN 3,3',3''-Phosphinidynetris[propanoic acid]
 CN Phosphine, tris(2-carboxyethyl)-
 CN TCEP
 CN Tris(2-carboxyethyl)phosphine
 CN Tris(carboxyethyl)phosphine
 FS 3D CONCORD
 MF C9 H15 O6 P
 CI COM
 LC STN Files: ANABSTR, BEILSTEIN*, BIOSIS, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, MEDLINE, MRCK*, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 DT.CA Caplus document type: Conference; Journal; Patent
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
 RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

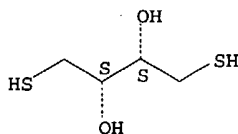
130 REFERENCES IN FILE CA (1907 TO DATE)

Searched by Noble Jarrell

7 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 132 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 12 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 3483-12-3 REGISTRY
 CN 2,3-Butanediol, 1,4-dimercapto-, (2R,3R)-rel- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 2,3-Butanediol, 1,4-dimercapto-, (R*,R*)-
 CN Threitol, 1,4-dithio- (7CI, 8CI)
 OTHER NAMES:
 CN (.+-.)-1,4-Dimercapto-2,3-butanediol
 CN (.+-.)-Dithiothreitol
 CN 1,4-Dithio-DL-threitol
 CN 1,4-Dithiothreitol
 CN Cleland's reagent
 CN Dithiothreitol
 CN DL-1,4-Dimercapto-2,3-dihydroxybutane
 CN DL-1,4-Dithiothreitol
 CN DL-Dithiothreitol
 CN DTT
 CN DTT (threitol derivative)
 CN rac-Dithiothreitol
 CN Reagents, Cleland's
 CN Sputolysin
 CN threo-1,4-Dimercapto-2,3-butanediol
 CN threo-2,3-Dihydroxy-1,4-butanedithiol
 CN WR 34678
 FS STEREOSEARCH
 DR 27565-41-9, 28823-08-7, 214119-27-4
 MF C4 H10 O2 S2
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS,
 BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
 CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DRUGU,
 EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS,
 NIOSHTIC, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)
 DT.CA Caplus document type: Conference; Dissertation; Journal; Patent;
 Preprint; Report
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
 MSC (Miscellaneous); PREP (Preparation); PROC (Process); PRP
 (Properties); RACT (Reactant or reagent); USES (Uses)
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 RACT (Reactant or reagent); USES (Uses)
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 (Reactant or reagent); USES (Uses); NORL (No role in record)
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 (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
 reagent); USES (Uses)

Relative stereochemistry.



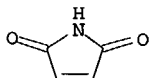
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4736 REFERENCES IN FILE CA (1907 TO DATE)
 77 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 4746 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 13 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN

Searched by Noble Jarrell

RN 541-59-3 REGISTRY
 CN 1H-Pyrrole-2,5-dione (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Maleimide (6CI, 8CI)
 OTHER NAMES:
 CN 3-Pyrroline-2,5-dione
 CN Maleic imide
 CN NSC 13684
 CN Pyrrole-2,5-dione
 FS 3D CONCORD
 MF C4 H3 N O2
 CI COM
 LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHM, DETHERM*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)
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 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
 RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

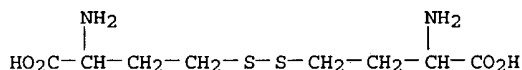


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1943 REFERENCES IN FILE CA (1907 TO DATE)
 685 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1951 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 33 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 14 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 462-10-2 REGISTRY
 CN Butanoic acid, 4,4'-dithiobis[2-amino- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Butyric acid, 4,4'-dithiobis[2-amino- (8CI)
 OTHER NAMES:
 CN (RS)-Homocystine
 CN 4,4'-Dithiobis[2-aminobutyric acid]
 CN Homocystine
 CN NSC 11337
 CN NSC 43122
 FS 3D CONCORD
 DR 1866-61-1
 MF C8 H16 N2 O4 S2
 CI COM
 LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, DDFU, DRUGU, EMBASE, IPA, MEDLINE, MRCK*, NIOSHTIC, PROMT, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Conference; Dissertation; Journal; Patent
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
 RLD.P Roles for non-specific derivatives from patents: PREP (Preparation); RACT (Reactant or reagent)
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
 RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

644 REFERENCES IN FILE CA (1907 TO DATE)
 4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 644 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 13 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

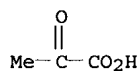
L3 ANSWER 15 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 302-01-2 REGISTRY
 CN Hydrazine (7CI, 8CI, 9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN Levoxine
 CN Nitrogen hydride (N2H4)
 CN Oxytreat 35
 FS 3D CONCORD
 DR 119775-10-9, 75013-58-0, 31886-26-7
 MF H4 N2
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)
 DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent; Preprint; Report
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
 RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
 RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

H2N-NH2

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

21331 REFERENCES IN FILE CA (1907 TO DATE)
 1454 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 21356 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 16 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 127-17-3 REGISTRY
 CN Propanoic acid, 2-oxo- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Pyruvic acid (8CI)
 OTHER NAMES:
 CN .alpha.-Ketopropionic acid
 CN 2-Oxopropanoic acid
 CN 2-Oxopropionic acid
 CN Acetylformic acid
 CN BTS
 CN NSC 179
 CN Pyrroacemic acid
 FS 3D CONCORD
 DR 1892-67-7
 MF C3 H4 O3
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, USPAT2, USPATFULL, VETU, VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
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 DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent; Report
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
 RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
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 RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

22323 REFERENCES IN FILE CA (1907 TO DATE)
 283 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 22347 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 9 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 17 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 74-88-4 REGISTRY
 CN Methane, iodo- (8CI, 9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN Iodomethane
 CN Methyl iodide
 CN Methyl iodide (CH3I)
 CN Monoiodomethane
 CN NSC 9366
 FS 3D CONCORD

DR 147937-07-3

MF C H3 I

CI COM

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM*, DIPPR*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPAT, ENCOMPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, PS, RTECS*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent; Preprint; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

H3C-I

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

18052 REFERENCES IN FILE CA (1907 TO DATE)

293 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

18077 REFERENCES IN FILE CAPLUS (1907 TO DATE)

13 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 18 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN

RN 58-68-4 REGISTRY

CN Adenosine 5'-(trihydrogen diphosphate), P'.fwdarw.5'-ester with 1,4-dihydro-1-.beta.-D-ribofuranosyl-3-pyridinecarboxamide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Adenosine 5'-(trihydrogen pyrophosphate), 5'.fwdarw.5'-ester with 1,4-dihydro-1-.beta.-D-ribofuranosylnicotinamide (8CI)

CN Adenosine pyrophosphate, 5'.fwdarw.5'-ester with 1,4-dihydro-1-.beta.-D-ribofuranosylnicotinamide (7CI)

OTHER NAMES:

CN .beta.-DPNH

CN .beta.-NADH

CN 1,4-Dihydronicotinamide adenine dinucleotide

CN Codehydrase I, reduced

CN Codehydrogenase I, reduced

CN Coenzyme I, reduced

CN Cozymase I, reduced

CN Dihydrocodehydrogenase I

CN Dihydrocozymase

CN Dihydronicotinamide adenine dinucleotide

CN Dihydronicotinamide mononucleotide

CN DPNH

CN NADH

CN NADH2

CN Nicotinamide-adenine dinucleotide, reduced

CN Reduced codehydrogenase I

CN Reduced diphosphopyridine nucleotide

CN Reduced nicotinamide adenine diphosphate

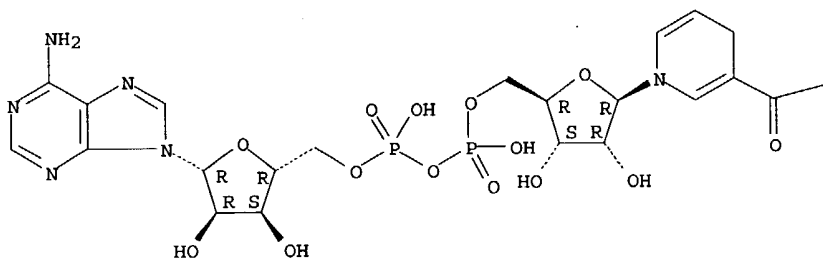
CN Reduced nicotinamide-adenine dinucleotide

FS STEREOSEARCH

DR 443892-10-2
 MF C21 H29 N7 O14 P2
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, MRCK*, NIOSHTIC, PROMT, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
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 DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent; Report
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
 RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); USES (Uses)
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
 RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

—NH₂

****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

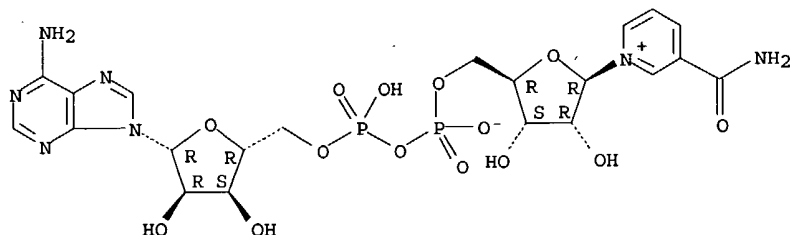
12957 REFERENCES IN FILE CA (1907 TO DATE)
 245 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 12968 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 19 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 53-84-9 REGISTRY
 CN Adenosine 5'-(trihydrogen diphosphate), P'.fwdarw.5'-ester with 3-(aminocarbonyl)-1-.beta.-D-ribofuranosylpyridinium, inner salt (9CI)
 (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Adenosine 5'-(trihydrogen diphosphate), P'.fwdarw.5'-ester with 3-(aminocarbonyl)-1-.beta.-D-ribofuranosylpyridinium hydroxide, inner salt
 CN Pyridinium, 3-carbamoyl-1-.beta.-D-ribofuranosyl-, hydroxide, 5'.fwdarw.5'-ester with adenosine 5'-(trihydrogen pyrophosphate), inner salt (8CI)
 OTHER NAMES:
 CN .beta.-Diphosphopyridine nucleotide
 CN .beta.-NAD

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CN .beta.-NAD+
 CN .beta.-Nicotinamide adenine dinucleotide
 CN Adenine-nicotinamide dinucleotide
 CN CO-I
 CN Codehydrase I
 CN Codehydrogenase I
 CN Coenzyme I
 CN Cozymase I
 CN Diphosphopyridine nucleotide
 CN DPN
 CN Enzopride
 CN NAD
 CN NAD+
 CN Nadide
 CN Nicotinamide-adenine dinucleotide
 CN NSC 20272
 CN Oxidized diphosphopyridine nucleotide
 FS STEREOSEARCH
 DR 30429-30-2, 159929-29-0
 MF C21 H27 N7 O14 P2
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
 CHEMCATS, CHEMLIST, CIN, CSCHM, DDFU, DIOGENES, DRUGU, EMBASE, IFICDB,
 IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC,
 PIRA, PROMT, RTECS*, TOXCENTER, USAN, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**, WHO
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 DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent;
 Report
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
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 (Reactant or reagent); USES (Uses); NORL (No role in record)
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 PRP (Properties); RACT (Reactant or reagent); USES (Uses)

Absolute stereochemistry.



13906 REFERENCES IN FILE CA (1907 TO DATE)
 506 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 13914 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 129 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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FILE LAST UPDATED: 1 OCT 2004 <20041001/UP>
 MOST RECENT DERWENT UPDATE: 200463 <200463/DW>
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L4 ANSWER 1 OF 1 WPIX COPYRIGHT 2004 THE THOMSON CORP on STN
AN 2001-657186 [75] WPIX
DNN N2001-489848 DNC C2001-193400
TI Assay for determining the homocysteine levels in patients involves
contacting a sample with an agent, which binds, oxidizes or depotentiates-
a reducing agent after being contacted with homocysteine desulfurase.
DC B04 B05 S03
IN BRADY, J; CONNOLY, C; CONNELLY, C
PA (AXIS-N) AXIS SHIELD PLC; (BRAD-I) BRADY J; (CONN-I) CONNELLY C
CYC 96
PI WO 2001077670 A2 20011018 (200175)* EN 38 G01N033-48
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
NL OA PT SD SE SL SZ TR TZ UG ZW
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
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LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD
SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
AU 2001046709 A 20011023 (200213) G01N033-48
EP 1272661 A2 20030108 (200311) EN C12Q001-527
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RO SE SI TR
US 2003040030 A1 20030227 (200318) C12Q001-26 <--
JP 2003530574 W 20031014 (200368) 43 G01N033-68
ADT WO 2001077670 A2 WO 2001-GB1615 20010410; AU 2001046709 A AU 2001-46709
20010410; EP 1272661 A2 EP 2001-919648 20010410; WO 2001-GB1615 20010410;
US 2003040030 A1 WO 2001-GB1615 20010410; US 2002-857433 20020305; JP
2003530574 W JP 2001-574876 20010410; WO 2001-GB1615 20010410
FDT AU 2001046709 A Based on WO 2001077670; EP 1272661 A2 Based on WO
2001077670; JP 2003530574 W Based on WO 2001077670
PRAI GB 2000-8784 20000410
IC ICM C12Q001-26; C12Q001-527; G01N033-48; G01N033-68
ICS G01N021-78
AB WO 200177670 A UPAB: 20011220
NOVELTY - An assay for homocysteine involves contacting a biological fluid
sample (1) with a reducing agent (2) and subsequently with homocysteine
desulfurase (3). The sample is contacted with an agent (4) which binds,
oxidizes or depotentiates (2) after being contacted with (3).
DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a
kit for a homocysteine assay comprising
(1) homocysteine desulfurase (3) preferably (i) in lyophilized form;
the lyophilisate being substantially free of thiol-containing
cryo/lyoprotectants or (ii) in aqueous liquid form further containing a
dithiol reducing agent (e.g. DTT (dithiothreitol), DTE (dithioerythrol),
or TCEP (tris(carboxyethyl)phosphine)) and a proteinaceous or
non-proteinaceous stabilizer);
(2) a homocyst(e)ine standard (preferably several standards
containing homocysteine (Hcy) or homocystine at several concentrations);
(3) reducing agent (2) (e.g. DTT, dithioerythrol, TCEP or methyl
iodide); and
(4) an agent (4) which binds, oxidizes or depotentiates (2) e.g. an
organic disulfide or a dithiol binding agent (preferably maleimide);
optionally at least one further reagent capable of converting the
homocysteine conversion product of (3) into a detectable analyte;
preferably a pyruvate deactivating agent e.g. hydrazine, acetoacetate

decarboxylase, pyruvate carboxylase, hydrogen peroxide or pyruvate dehydrogenase; optionally a filter for removing pyruvate i.e. a molecular sieve; or capable of removing red blood cells from blood.

USE - For determining homocysteine levels in patients correlated to risk of cardiovascular disease e.g. coronary heart disease, coronary artery disease, cerebrovascular disease, or peripheral vascular disorders.

Human blood was collected into vacutainer tubes containing citrate. Plasma was separated from the cells upon centrifugation at 1000 g for 10 minutes at 2 - 8 deg. C. Sample (10 micro l) was mixed with 0.47% hydrogen peroxide (10 micro l) and incubated at room temperature for 3 minutes. Enzyme reagent 1 (containing homocysteine desulfurase (0.02 U/ml), lactate dehydrogenase (20.8 micro g/ml), nicotinamide adenine dinucleotide (NADH) (50 micro M), cryo/lyoprotectant (trehalose, gelatine, maltose, dextran, mannitol, tween 20 or caseine) (0.8 wt.%), phosphate buffer (pH 8) (0.1 M), catalase (300 U/ml)) (25 micro l) was added and incubated for 30 minutes at 37 deg. C. 10 micro l of the same sample was mixed with 0.47% hydrogen peroxide and incubated at room temperature for 3 minutes. Blank reagent 1 was added and incubated for 30 minutes at 37 deg. C. Following this incubation reagent 2 was added to each and after mixing they were incubated for further 3 minutes at room temperature. Reagent 2 contained the DTT (dithiothreitol) binding agent and the acid destroyed the excess NADH. A reagent 3 was added and incubated at 37 deg. C for 15 minutes. The reaction was stopped by the addition of 6M HCl (15 micro l) and the sample was read at 550 nm. The reading obtained for the sample treated with blank reagent 1 was subtracted from the reading for the sample treated with enzyme reagent 1. The pretreatment of samples with hydrogen peroxide and the absence of catalase in reagent 1 for one set of samples were used as control.

The samples were assayed in the presence and absence of H2O2/catalase. The reduction in background had improved the precision of the assay by decreasing the % CV (coefficient of variance). The results demonstrated that the background was reduced when samples were assayed in the presence of hydrogen peroxide and catalase.

ADVANTAGE - The assay reduces the background levels, i.e. the signal generated by performance of the assay in the absence of the homocysteine conversion enzyme. The improved assay determines the homocysteine levels in patients.

Dwg.0/3

FS CPI EPI

FA AB; DCN

MC CPI: B04-L01; B05-C08; B10-B02D; B11-C08E3; B12-K04A2

EPI: S03-E14H

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